



European
Ceramics

BLOOMSTONE RANGE

Product Name: **BLOOMSTONE - VARIOUS COLOURS/FINISHES**

Product Identifier: Refer to tile name and product code on paperwork/packaging

Product Description: A glazed porcelain tile and a water absorption rate of less than 0.50%.

Country Of Origin: Italy

Building Code Obligations

Code Clauses:

B2 – Durability

B2.3.1

C3 – Fire affecting areas beyond the source

D1 – Access routes

D1.3.3

E3 – Internal moisture

E3.3.2, 3.3.3, 3.3.4

G3 – Food preparation and prevention of contamination

G3.3.2

G6 – Airborne and Impact sound

G6.3.1



Note – this building product is not subject to a warning/ban under section 26 of the Building Act 2004

Manufacturer Details:
European Ceramics Approved
BPIR COMPLIANT

Importer Details:
European Ceramic Tiles Ltd
Address: 7A Cowley Place, Rosedale, AKL 0632
NZBN: 9429037294571
Website: euroceramics.co.nz

Scope	Use
B2 Durability	See below suitability table
C3 Fire	The Building Code relating to fire ratings regulation & standards become mandatory from April 2013, establishing the list of products belonging to Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.
D1 Access Routes	Refer to slip resistance documentation for all Access routes classifications D1/AS1 for above range.
E3 Internal Moisture	Under E3 Tiles installed over a waterproof membrane using a nonporous grouting system, are an acceptable solution.
G3 Food Preparation & Prevention from Contamination	As an impervious and easy to clean surface, this range complies.
G6 Airborne & Impact Sound	If required, tiles can form part of an acoustic system to comply with IIC & STC in conjunction with an approved third-party system.

Suitability *	Residential	Light Commercial	Commercial
Indoor Floor	*	*	*
Indoor Walls	*	*	*
Outdoor Cladding	*	*	*
Frost Resistant	*	*	*
Swimming Pool Submerged	*	*	*
Swimming Pool Surround	*	*	*
Paving/External	*	*	*
Over Underfloor Heating	*	*	*
Kitchen wall	*	*	*
Within 1.5m of a Plumbing Fixture or Fitting	*	*	*

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Building Code References

B2 – Durability

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability life of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

C3 – Fire affecting areas beyond the source

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining).

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

D1 – Access routes

For D1 access routes, in most cases product-related compliance for access routes is slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

E3 – Internal Moisture

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed.

Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

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G3 – Food preparation and prevention of contamination

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious. G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

G6 – Airborne and Impact Sound

For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: “The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55” and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.

Technical Information

· Tile Performance Data · Caractéristique Technique · Technische Daten · Материал для ваших проектов

Classificazione secondo EN 14411 ISO 13006 annesso G gruppo Bla con Ev ≤0,5% - Classification in accordance with EN 14411 ISO 13006 annex G standards Bla with Ev ≤ 0,5% - Classification selon EN 14411 ISO 13006 annexe G groupe Bla avec Ev ≤0,5% - Klassifizierung gemäß EN 14411 ISO 13006 anlage G Gruppe Bla mit Ev ≤0,5% - Классификация в соответствии с EN 14411 ISO 13006, приложение G, стандарт Bla, где Ev ≤0,5%

Caratteristica Tecnica Tile Performance Data Caractéristique Technique Technische Daten Техническая Характеристика	Metodo di prova Tests method Méthode d'essai Testmethode Метод испытания	Valore * Medio * Caesar* - Average *Caesar* Value * - Valeur * Moyen * Caesar*	
		"Caesar" Durchschnittswert * - Среднее Значение *Caesar* *	A E X T R A Z O
Dimensione - Size Dimension - Abmessungen - Размер	ISO 10545-2	Conforme - In accordance Conforme - Erfüllt - Соответствует	Conforme - In accordance Conforme - Erfüllt - Соответствует
Absorbimento d'acqua* - Water absorption* Absorption d'eau* - Wasseraufnahme* - % Поглощения воды*	ISO 10545-3	≤ 0,1%	≤ 0,1%
Resistenza alla flessione* - Bending strength* Résistance à la flexion* - Biegezugfestigkeit* Упругость*	ISO 10545-4	Conforme - In accordance Conforme - Erfüllt - Соответствует	Non applicabile a piastrelle con una forza di rottura Not applicable to tiles with a breaking strength N'est pas applicable aux carreaux avec une charge de rupture Nicht anwendbar bei Fliesen mit einer Bruchlast Не применяется в отношении плиток с прочностью на разрыв ≥ 3000 N
Sforzo di rottura (S) - Breaking strength Charge de rupture - Bruchlast - Ударпрочность	ISO 10545-4	S _p ≥ 7,5 mm S _g ≥ 1300 N	> 10.000 N
Resistenza all'abrasione profonda* - Deep scratch resistance* Résistance à l'abrasion profonde* - Widerstand gegen Tiefenverschleiß* - Устойчивость к глубокому истиранию*	ISO 10545-6	Conforme - In accordance Conforme - Erfüllt - Соответствует	Conforme - In accordance Conforme - Erfüllt - Соответствует
Coefficiente di dilatazione termica lineare* Thermal linear expansion coefficient* Coefficient de dilatation thermique linéaire* Koeffizient der linearen thermischen Dehnung* Коэффициент линейного температурного расширения*	ISO 10545-8	= 7 (10 ⁻⁶ °C ⁻¹)	= 7 (10 ⁻⁶ °C ⁻¹)
Resistenza agli sbalzi termici* - Thermal shock resistance* Résistance aux saccades de température* - Temperaturwechsel Beständigkeit* Устойчивость к температурному перепаду*	ISO 10545-9	Resistente - Resistant Résistante - Beständig - Стойкий	Resistente - Resistant Résistante - Beständig - Стойкий
Dilatazione all'umidità* - Expansion in humidity* Dilatation à l'humidité* - Feuchtigkeitsausdehnung* Расширение в условиях влажности*	ISO 10545-10	≤ 0,1 (mm/m)	≤ 0,1 (mm/m)
Resistenza al gelo* - Frost resistance* Résistance au gel* - Frostbeständigkeit* Морозоустойчивость*	ISO 10545-12	Resistente - Resistant Résistante - Beständig - Стойкий	Resistente - Resistant Résistante - Beständig - Стойкий
Resistenza all'attacco chimico* - Resistance to chemical attack* Résistance à l'attaque chimique* - Beständigkeit gegen Chemikalien* - Устойчивость к химическому воздействию*	ISO 10545-13	Resistente - Resistant Résistante - Beständig - Стойкий	Resistente - Resistant Résistante - Beständig - Стойкий
Carico statico - Static load Charge statique - Statische Last Статическая нагрузка	EN 12825	-	60x60 60x120 KN>7,0 KN>5,0 Centro - Centre - По центру Au centre - Mitte - По центру Centro lato - Side centre Au centre latéralement - Mitte Seite - По центру грани Diagonale - Diagonal En diagonale - Diagonal - По диагонали KN>8,0 KN>7,0
Classe di carico di rottura*** - Breaking load class*** Classe de charge de rupture*** - Bruchlastklasse*** Класс стойкости к разрушающей нагрузке***	EN 1339	-	U11 *** T11 ***
Resistenza alle macchie* - Resistance to stains* Résistance aux taches* - Fleckenbeständigkeit* Устойчивость к образованию пятен*	ISO 10545-14	Pulibile - Cleanable Nettoyable - Leicht zu reinigen - Чистящийся	Pulibile - Cleanable Nettoyable - Leicht zu reinigen - Чистящийся
Resistenza allo scivolamento** - Slip resistance** Résistance au glissement** - Rutschhemmende Eigenschaft** Соппротивление скольжению**	EN 16165-B EN 16165-A ▲ ANSI A326.3	R10 B Matt 120x120 - 60x120 60x60 - 30x60 R11 C Grip	R11 C WET DCOF ≥0,55 WET DCOF ≥0,55
Spessore nominale - Nominal Thickness Épaisseur nominale - Nominalestärke Номинальная толщина		6 mm 120x278 9 mm 120x120 - 60x120 - 60x60 - 30x60	20 mm

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Fire Resistance

The building code relating to fire rating regulations and standards requires specifiers to provide documentation such as fire certificates for materials used in construction.

Ceramics are in itself a fire-resistant material, mostly being manufactured at over 1200 degrees Celsius. Testing and providing such certification are therefore not relevant to the Ceramics industry.

Ceramic and Porcelain tiles are an inert material, and therefore non-combustible. They do not release fumes or toxic gases in the event of a fire. Porcelain tiles contain no sealants, waxes or other chemicals that could release VOC's into the environment. Ceramics do not pose a risk of spreading or intensifying a fire therefore there is no testing required as they do not contribute to a fire.

EXTRAORDINARY EFFECTS DURING USE PHASE:

Fire: According to /EN 13501-1:2007+A1:2009/, ceramic tiles can be classified as A1 class of fire resistance rating, because they do not contribute to fire.

It has been demonstrated that the coating of the ceramic tiles, in case of fire, reduces heat on them and thus the risk of collapse.

Water: Ceramic tiles cannot react with water because they are an insoluble material.

For further information on the physio-characteristics of fire resistance for tiles please refer to the Technical Documents section on euroceramics.co.nz

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